

TITLE:	WELDING POSITIONS & VARIOUS TYPES OF JOINTS
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CONTENTS:

1. Introduction
2. Welding joints

1.0 WELDING POSITIONS:

A procedure specification always designates the positions in which the welding shall be done. The se positions are schematically shown in figure-1 to figure-4.

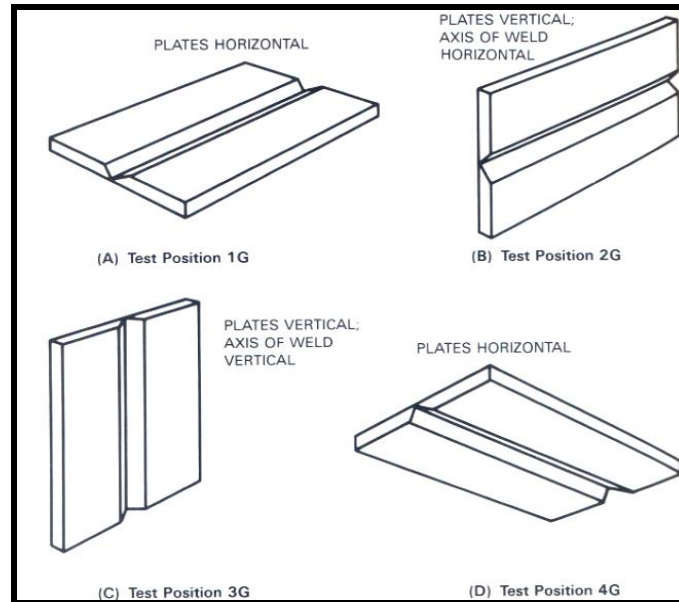


Figure-1: Positions of test plates for groove welds.

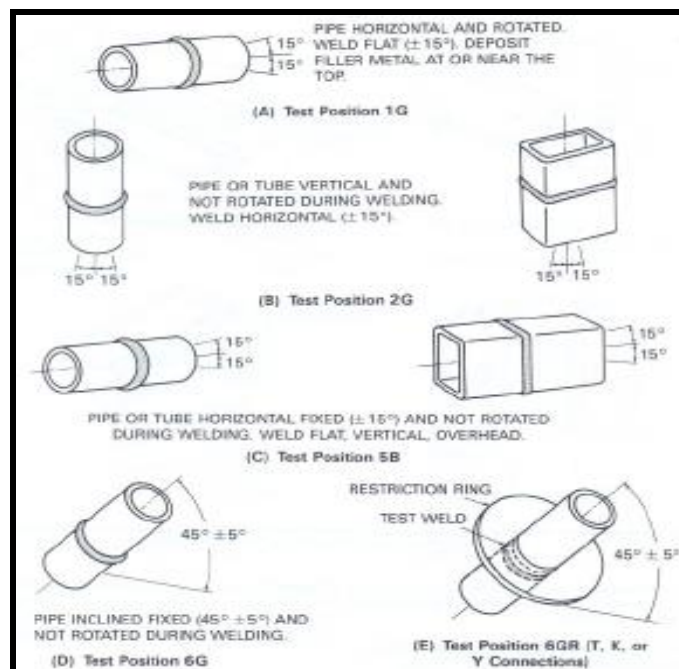


Figure-2: Positions of test pipes for groove welds.

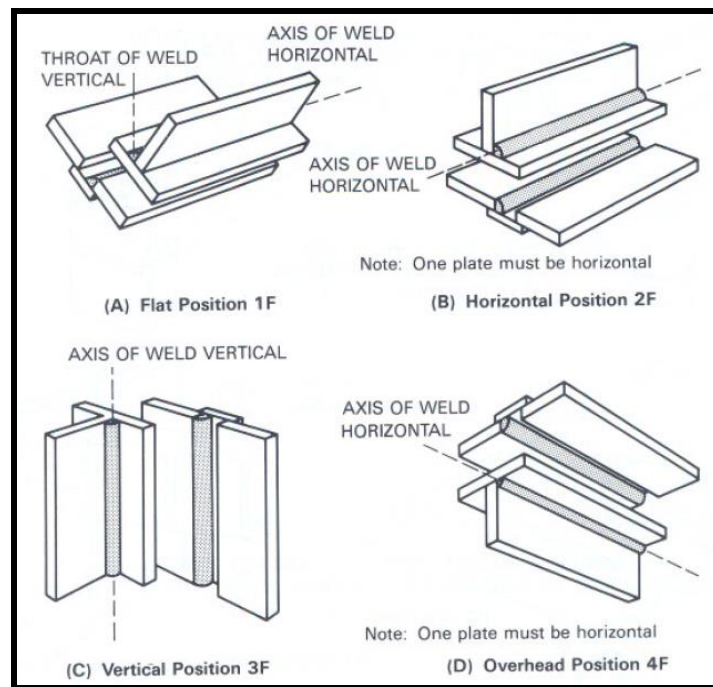


Figure-3: Positions of test plates for fillet welds.

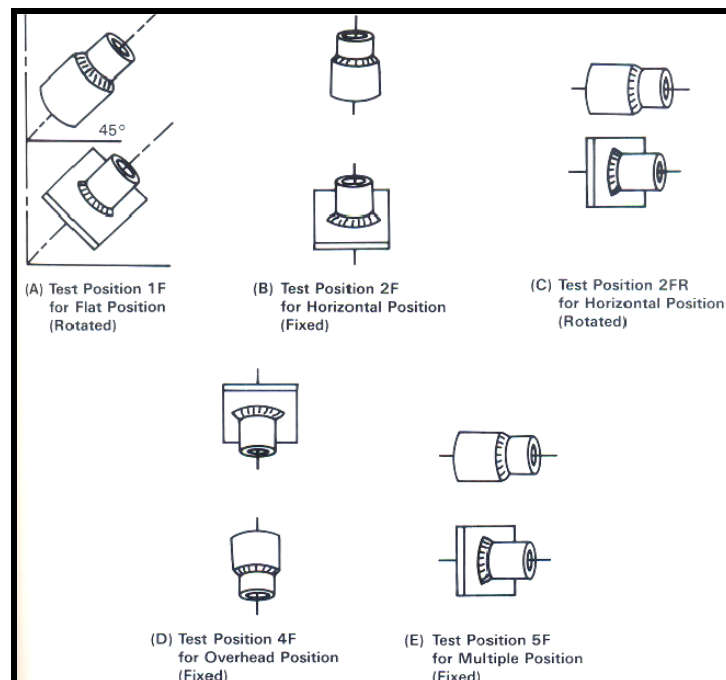


Figure-4: Positions of test pipes for fillet welds.

2.0 WELDING JOINTS:

The loads in a welded structure are transferred from one member to another through weld placed in the joints. The type of joints used in a welded construction and the applicable welds are shown in figure-5 to figure-9.

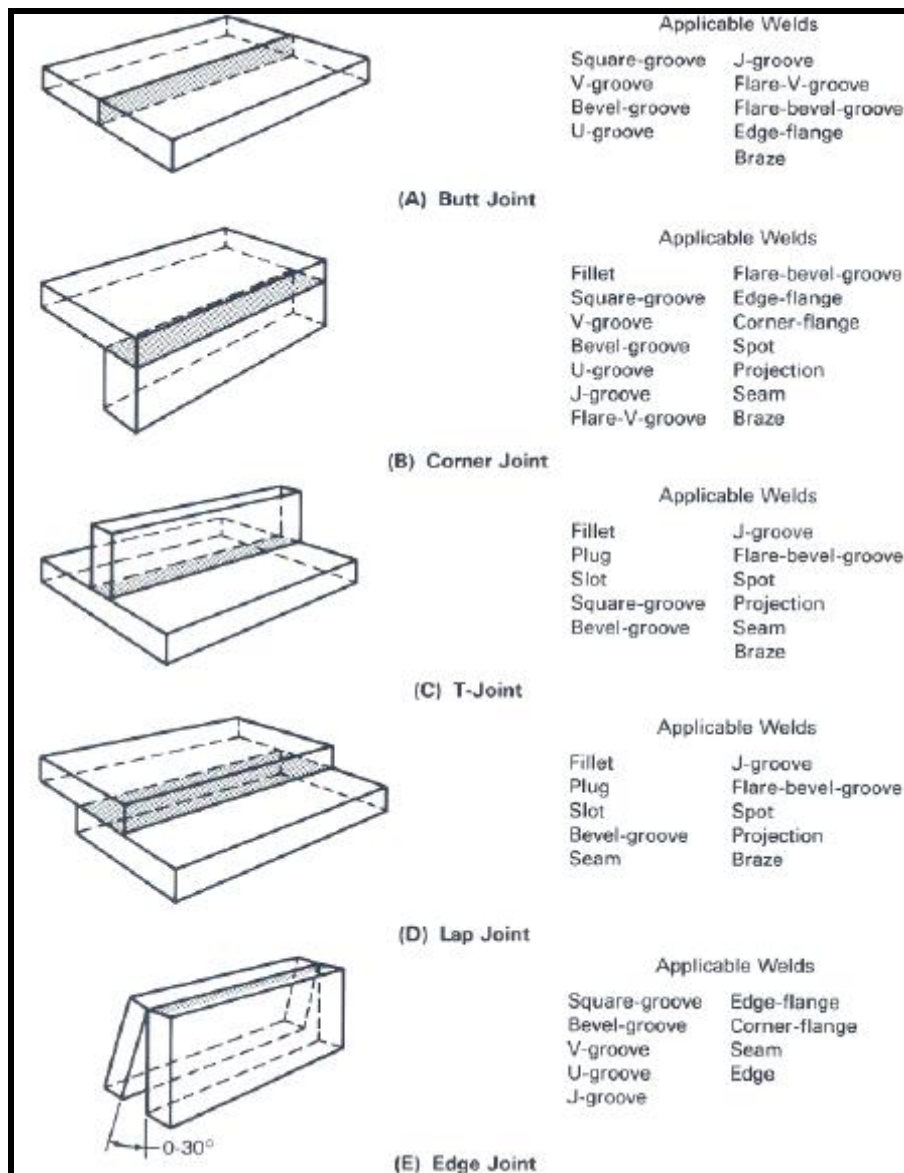


Figure-5: Types of weld joints.

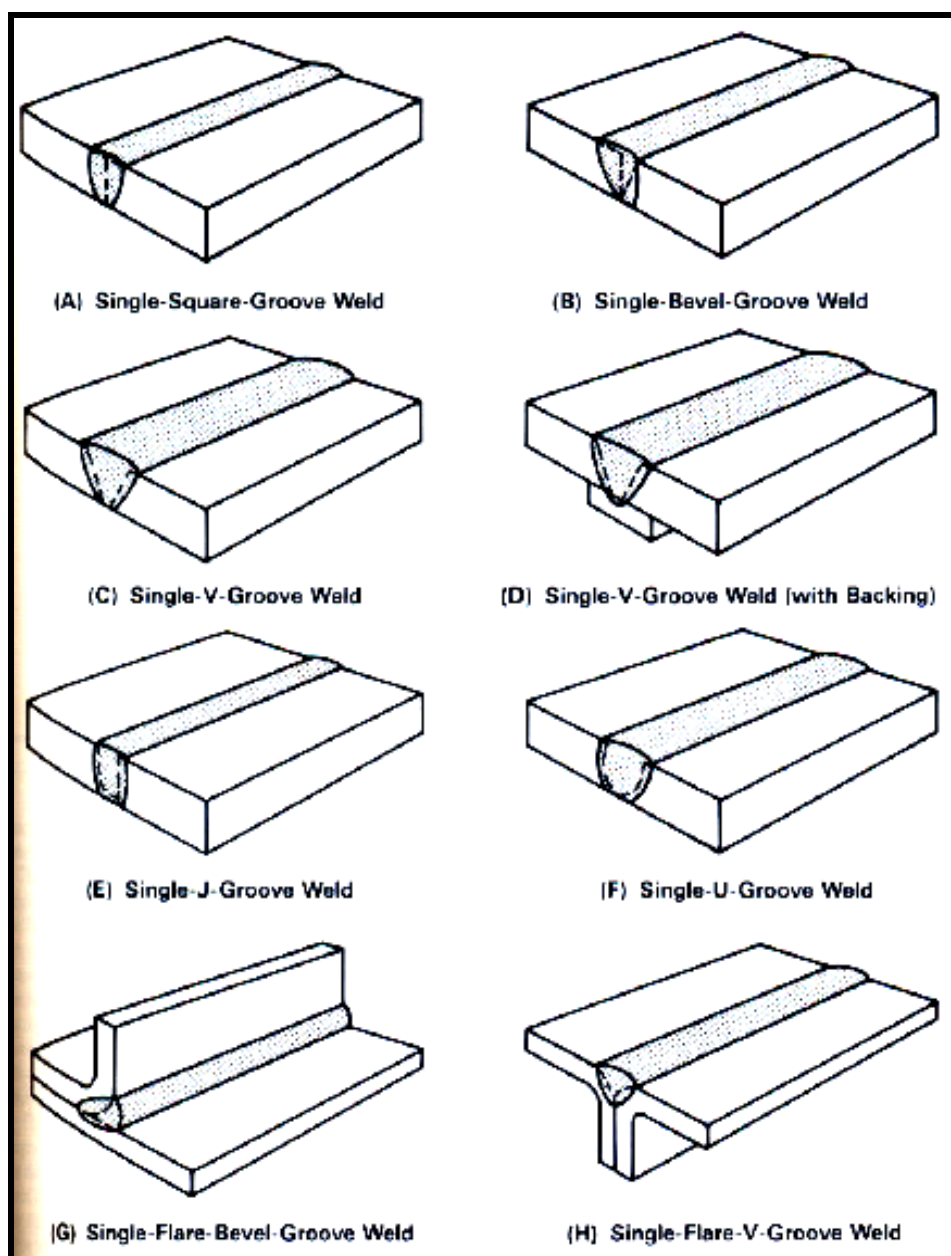


Figure-6: Single groove welds.

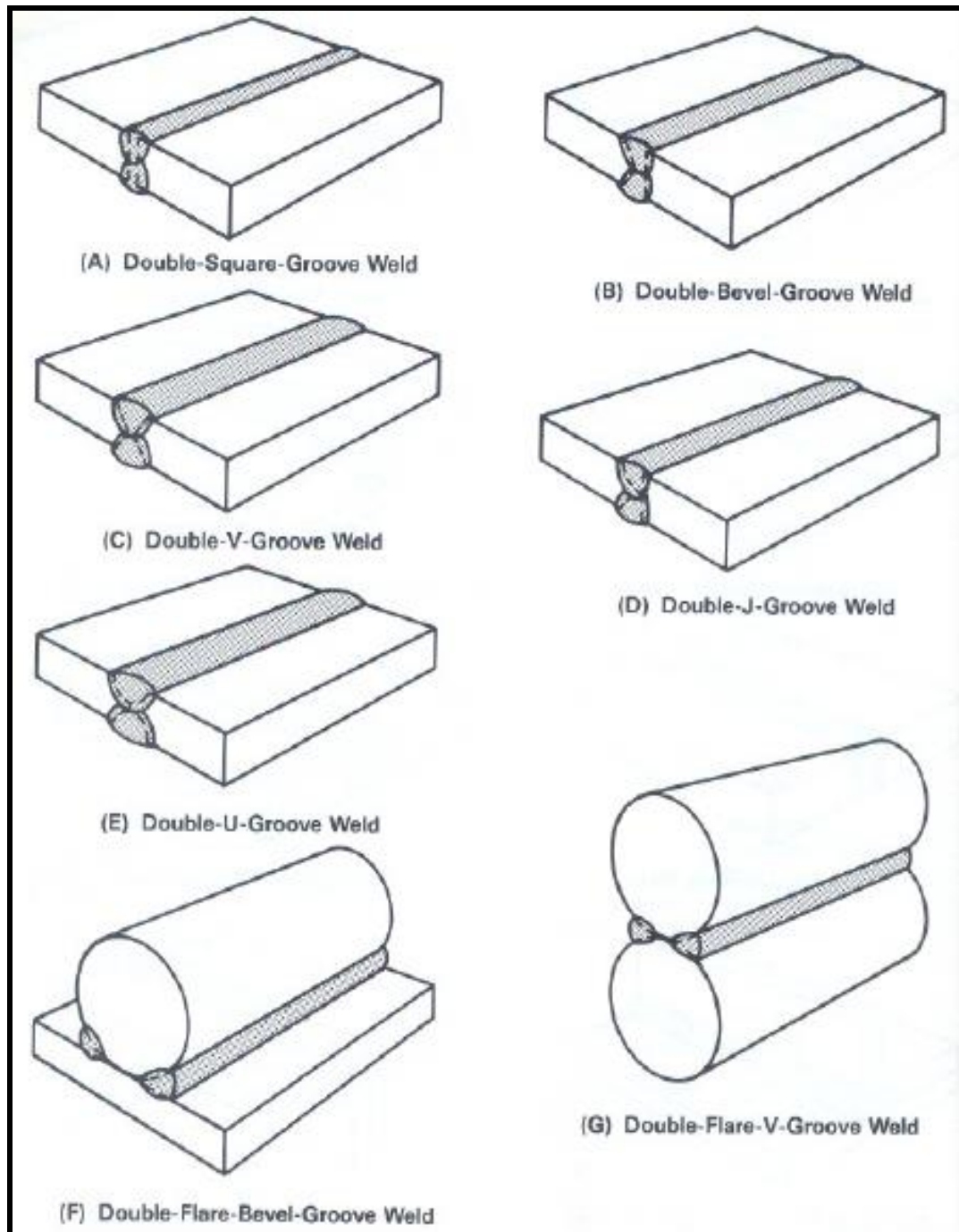


Figure-7: Double groove welds.

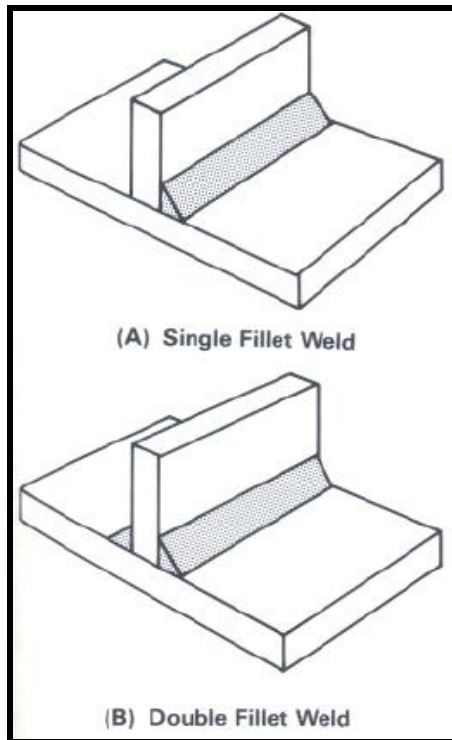


Figure-8: Fillet welds.

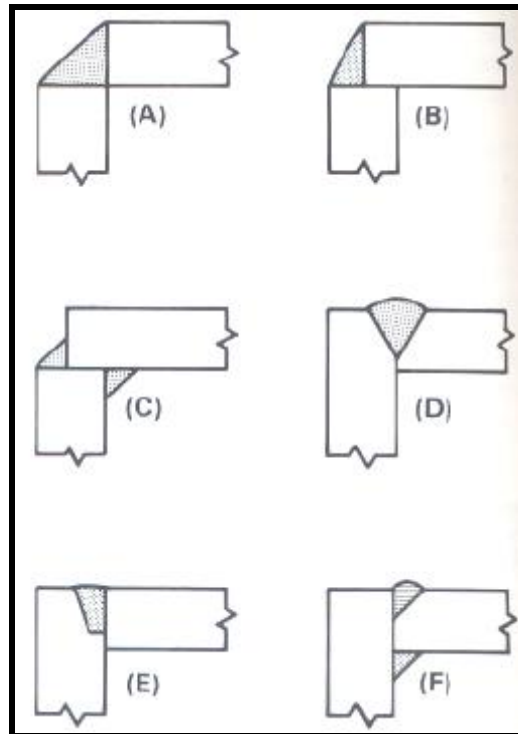


Figure-9: Various corner joints

The description of various features of a fillet weld bead is shown in figure-10.

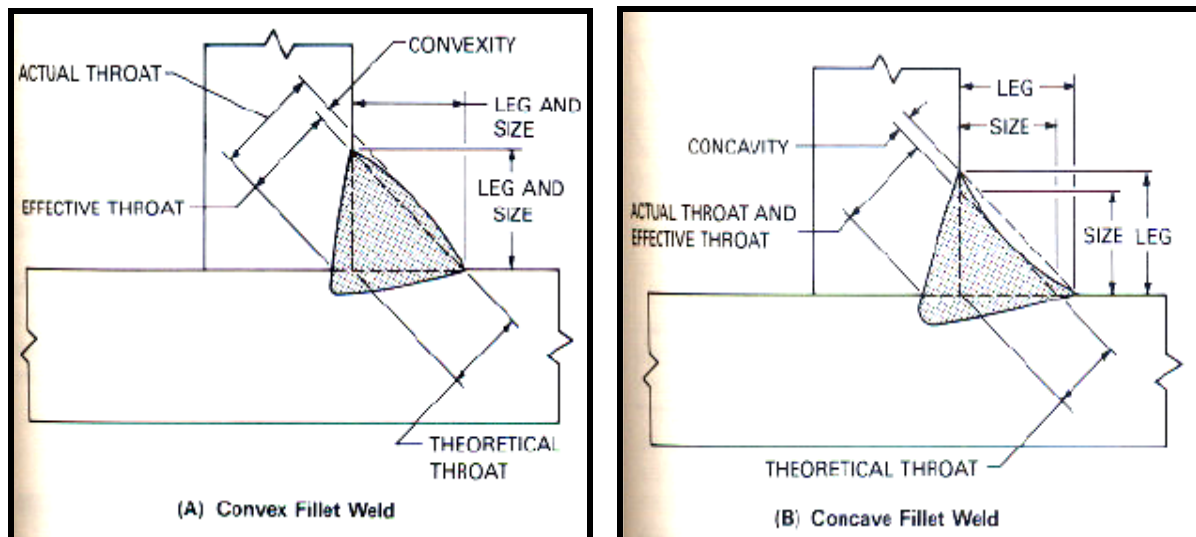


Figure-10: Fillet weld configuration – (A) convex fillet and (B) concave fillet.

